

United States Department of Agriculture

SERVICE AND REGULATORY ANNOUNCEMENTS
BUREAU OF ANIMAL INDUSTRY

OCTOBER, 1932

[This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the bureau, establishments at which the Federal meat inspection is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each or 25 cents a year (foreign 45 cents). A supply will be sent to each official in charge of a station or branch of the bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.]

CONTENTS

	Page
Changes in directory.....	95
Notices regarding meat inspection.....	96
Animal casings from India.....	96
Inspection of fresh-meat cuts for Government organizations.....	96
Facsimile of Finnish meat-inspection certificate.....	96
Animals slaughtered under Federal meat inspection, September, 1932.....	98
Causes of condemnations of carcasses, August, 1932.....	98
Imports of food animals and of meats and meat food products, September, 1932.....	98
Summary of tuberculosis-eradication work in cooperation with States, September, 1932.....	99
Summary of hog-cholera-control work, September, 1932.....	101
Anti-hog-cholera serum and hog-cholera virus produced under licenses, September, 1932.....	101
Licenses issued for biological products, September, 1932.....	101
Proceedings under the packers and stockyards act, October, 1932.....	101
Results of prosecutions for violations of laws.....	102
Federal gasoline tax.....	102
Form 1034 vouchers.....	103
Permitted disinfectants.....	103
Red Cross roll call.....	103
New publications of the bureau.....	104
Organization of the Bureau of Animal Industry.....	105

CHANGES IN DIRECTORY

Meat Inspection Granted

†115. Homelike Food Products Co., 962-966 North Alder Street, Philadelphia, Pa.
†*390. Dugdale Packing Co., South Eleventh Street, between Bell and Scyamore Streets, St. Joseph, Mo.
†686. Central Falls Provision Co., 847 High Street, Central Falls, R. I.

Meat Inspection Withdrawn

259. E. Godel & Sons, foot South Street, Peoria, Ill.

Meat Inspection Extended

3. Swift & Co., Chicago, Ill., to include American Provisions Export Co.
3-E. Swift & Co., South St. Paul, Minn., to include United Dressed Meat Co.
71. Swift & Co., Jersey City, N. J., to include American Provisions Export Co.

Change in Name of Official Establishment

393. Oliver Wynne, 1141-1145 May Avenue, Norfolk, Va., instead of Wynne Lard & Provision Co. (Inc.).
770. Guggenheim Bros. (Inc.), Forty-sixth Street and Packers Avenue, Chicago, Ill., instead of Guggenheim Bros.

† No sealed cars.

* Conducts slaughtering.

Change of Official in Charge

Dr. A. R. Miller succeeds Dr. M. A. Ruck as inspector in charge at South Kortright, N. Y.

Dr. W. R. Kidwell succeeds Dr. F. G. Miller as inspector in charge at Butte, Mont.

Dr. F. G. Miller succeeds Dr. W. D. Wright (deceased) as inspector in charge at Ogden, Utah.

Dr. A. H. Julian succeeds Dr. A. N. McGregor as inspector in charge at Yakima, Wash.

Dr. A. N. McGregor succeeds Dr. J. S. Kelly (retired) as inspector in charge at Tacoma, Wash.

A. L. Baker succeeds Oscar R. Mathews as inspector in charge at Ardmore, S. Dak.

Change in Address of Official in Charge

Dr. J. W. Hovorka, care Wilson Provision Co., Peoria, Ill., instead of care E. Godel & Sons.

Substation Added

Central Falls, R. I., meat inspection, under Providence, R. I.

Substation Discontinued

Trevor, Wis., enforcement packers and stockyards act, under Chicago, Ill.

Remove From Address List

Dr. W. D. Wright, Ogden, Utah.

Dr. J. S. Kelly, Tacoma, Wash.

Oscar R. Mathews, Ardmore, S. Dak.

NOTICES REGARDING MEAT INSPECTION**ANIMAL CASINGS FROM INDIA**

The permission granted in Service and Regulatory Announcements of September, 1928, and August, 1929, for the importation through foreign certification of animal casings from India, is hereby revoked. All animal casings which leave India on and after December 15, 1932, shall be disinfected as required by previous instructions as a condition for admission into the United States.

INSPECTION OF FRESH-MEAT CUTS FOR GOVERNMENT ORGANIZATIONS

In order that there may be no doubt as to the sex of the animal or grade of the carcass from which the cuts are derived, inspectors are directed to see that no fresh-meat cuts are accepted for Government organizations except those from carcasses which have previously been inspected and found to conform to specifications.

FACSIMILE OF FINNISH MEAT-INSPECTION CERTIFICATE

The facsimile shown on page 97 represents the form of approved meat-inspection certificate for Finland acceptable under the provisions of B. A. I. Order 211 (revised), regulation 27, section 5, paragraph 5.

N:o

Konnoslementtiin liitettävä todistus.
Intyg att bifogas konnosmentet.SUOMEN
TASAVALTAREPUBLIKEN
FINLANDMAATALOUSMINISTERIÖ — LANTBRUKSMINISTERIET
ELAINLAAKINTÖOSASTO — VETERINÄRAVDELNINGEN

Lihantarkastustodistus. — Köttkontrollintyg.

..... päivänä kuuta 19.....

(paikka)

19

(ort)

(tid)

Täten todistetaan, että allamainittu liha tai allamainitut lihatuotteet on saatu *Härmed intygas, att nedannämnt kött eller nedannämnda kötpprodukter erhällits eläinlääkärin sekä ennen teurastusta että sen jälkeen tarkastamista eläimistä ja että från djur, som undersöks av veterinär såväl före som efter slaktringen och att det se on hyväksyty voimassaolevan lihantarkastuslain mukaisessa järjestyksessä ihmisen den ordning gällande köttkontrollag föreskriver, godkänts att såsom tjänlig till mänskoföda utföras ur landet.*

Tavaralaaji Varuslag	Kollien lukumäärä Antalet kollyn	Paino Vikt
.....
.....
.....
.....

Lihan ja päälysten tunnusmerkit:
Köttets och emballagets kännetecken:

Lähettilä:

Avsändare:

Vastaanottaja:

Emottagare:

Lähettilästapa:

Transportssätt:

Osoite:

Adress:

Määräpaikka:

Destinationsort:

(Laivan nimi y.m.)
(Fartygets namn m.m.)Lihantarkastaja tai terveydenhoitolautakunnan valtuutettu.
Kötkontrollör eller hälsosvårdsnämndens befullmäktigade.

ANIMALS SLAUGHTERED UNDER FEDERAL MEAT INSPECTION,
SEPTEMBER, 1932

Station	Cattle	Calves	Sheep and lambs	Goats	Swine
Baltimore	7,487	1,537	5,257		62,478
Buffalo	6,763	2,068	9,135		64,550
Chicago	134,748	29,755	327,247		416,965
Cincinnati	14,857	5,477	22,940		76,435
Cleveland	3,555	(2)	(1)		39,481
Denver	6,329	1,231	(2)		22,971
Detroit	6,600	5,158	16,348		82,711
Fort Worth	17,344	14,671	20,095		16,945
Kansas City	66,744	23,215	130,575		223,768
Los Angeles	9,513	2,038	29,901		25,081
Milwaukee	18,589	36,739	9,790		92,447
National Stock Yards	47,065	20,433	46,726		213,181
New York	29,214	50,786	266,102		(2)
Omaha	75,510	5,473	165,958		195,174
Philadelphia	6,990	8,525	27,596		76,279
Sioux City	25,838	2,192	60,395		84,414
South St. Joseph	21,568	(2)	(2)		70,728
South St. Paul	49,420	46,855	85,860		104,613
All other stations	169,766	110,194	443,486	426	1,383,603
Total:					
September, 1932	717,900	366,347	1,667,411	426	3,251,824
September, 1931	686,885	392,807	1,666,986	410	2,954,565
9 months ended					
September, 1932	5,736,556	3,401,626	13,645,157	4,170	33,278,457
September, 1931	6,026,221	3,566,016	13,180,866	4,008	31,395,758
New York, Brooklyn, Jersey City, and Newark ¹	37,430	58,961	324,052		196,219

Horses slaughtered:

September, 1932	5,237
September, 1931	11,964
9 months ended	
September, 1932	47,075
September, 1931	79,712

¹ The slaughter figures in this group of cities are included in the figures above for "New York" and "All other stations" and are combined here to show total in the Greater New York district.

² Included in "All other stations."

Inspections of lard at all establishments, 122,990,917 inspection pounds; compound and other substitutes, 29,112,897 inspection pounds; sausage, 60,158,980 inspection pounds; oleomargarine, 5,977,412 inspection pounds.

Corresponding inspections for September, 1931: Lard, 110,905,697 inspection pounds; compound and other substitutes, 49,502,821 inspection pounds; sausage, 61,284,298 inspection pounds; oleomargarine, 8,590,838 inspection pounds.

(These totals of inspection pounds do not represent actual production, as the same product may have been inspected and recorded more than once in the process of manufacture.)

CAUSES OF CONDEMNATIONS OF CARCASSES, AUGUST, 1932

Cause	Cattle	Calves	Sheep and lambs	Swine
Emaciation	636	78	182	17
Hog cholera				3,493
Inflammatory diseases	859	158	749	1,998
Immaturity		145		
Tuberculosis	1,592	25		2,760
Other causes	1,053	166	515	3,443
Total	4,140	572	1,446	11,711

IMPORTS OF FOOD ANIMALS AND OF MEATS AND MEAT FOOD PRODUCTS, SEPTEMBER, 1932

The statements following show the imports of food animals and of meats and meat food products inspected by the Bureau of Animal Industry during September, 1932, with figures for other periods for comparison:

Imports of food animals

Country of export	Cattle	Swine	Sheep	Goats
Mexico	1,168			
Canada	1,036	153	81	
Virgin Islands (to Puerto Rico)	188			
Total:				
September, 1932	2,392	153	81	1
September, 1931	5,130	352	340	
9 months ended—				
September, 1932	65,006	1,890	1,865	68
September, 1931	76,786	1,597	5,457	32

Imported meats and meat food products

Country of export	Fresh and refrigerated		Cured and canned	Other meat products	Total weight
	Beef	Other			
Argentina			Pounds	Pounds	Pounds
Brazil			222,796	101,431	324,227
Canada	49,510	56,544	1,186,864		1,186,864
New Zealand	2,017	13,119	145,271	140,546	391,871
Paraguay				1,518	16,654
Uruguay			114,918	90	115,008
Other countries	12,579		1,515,334	76,160	1,591,494
			92,116	24,797	129,492
Total:					
September, 1932	64,106	69,663	3,277,299	344,542	3,755,610
September, 1931	21,912	109,233	2,126,990	381,088	2,639,223
9 months ended—					
September, 1932	402,978	1,271,969	20,263,293	2,057,348	23,995,588
September, 1931	1,271,211	911,092	15,169,029	4,334,959	21,706,291

Condemned in September, 1932: Beef, 122 pounds; pork, 196 pounds; total, 318 pounds. Refused entry: Pork, 216 pounds.

SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION WITH STATES, SEPTEMBER, 1932

State	Tuberculin tests during month		Total to date				Inspector in charge	State official
	Cattle tested	Cattle re- acted	Modified accredited counties	Once- tested- free herds	Ac- cred- ited herds	Herd under super- vision		
Ala.	5,324	0	16	24	55,201	317	77,783	R. E. Jackson
Ariz.	2,981	28	0	0	8,888	46	9,002	F. L. Schneider
Ark.	6,883	0	5	7	25,431	10	25,441	W. A. McDon- ald
Calif.	36,856	1,631	6	10	17,450	119	18,827	W. E. Howe
Colo.	161	2	0	0	17	58	93	J. O. Wilson
Conn.	8,047	726	1	13	2,638	6,713	9,829	R. L. Smith
Del.	3,869	27	1	33	4,983	2,015	7,407	E. B. Simonds
D. C.	0	0	1	100	43	2	46	A. E. Wight
Fla.	33,031	5	23	34	11,831	90	12,967	T. W. Cole
Ga.	17,609	0	59	37	108,863	36	108,899	W. C. Dendin- ger
Idaho	7,250	20	44	100	51,491	45	51,549	John T. Dallas
Ill.	121,691	810	83	81	83,783	5,764	237,574	J. J. Lintner
Ind.	7,135	38	92	100	182,541	2,927	188,298	H. Busman

SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION WITH STATES, SEPTEMBER, 1932—Continued

State	Tuberculin tests during month		Total to date				Inspector in charge	State official
	Cattle tested	Cattle re-accted	Modified accredited counties	Once-tested free herds	Accredited herds	Herds under supervision		
Iowa	95,600	2,034	No. 70	P. ct. 71	100,000	1,415	200,000	J. A. Barger
Kans	3,880	27	61	58	118,624	534	119,168	N. L. Townsend
Ky	15,489	8	89	74	122,094	44	124,578	W. F. Biles
La	1,774	13	0	0	4,572	12	4,826	B. F. Gooch
Me	5,908	0	16	100	42,919	880	43,817	G. R. Caldwell
Md	17,221	136	5	22	13,100	12,737	43,080	E. B. Simonds
Mass	12,297	1,049	1	7	9,222	4,893	15,987	E. A. Crossman
Mich	42,435	57	83	100	193,548	67	193,769	T. S. Rich
Minn	95,888	468	60	69	138,416	5,205	144,659	W. J. Fretz
Miss	1,055	9	10	12	24,592	15	24,618	H. Robbins
Mo	6,961	22	23	20	116,579	223	120,780	Ralph Graham
Mont	4,098	1	19	34	39,853	81	43,272	J. W. Murdoch
Nebr	6,422	71	49	53	88,094	101	88,221	A. H. Francis
Nev	1,273	4	16	88	4,596	9	4,905	L. C. Butterfield
N. H	1,756	43	3	30	8,469	7,482	16,713	E. A. Crossman
N. J.	15,846	1,312	0	0	3,154	8,273	13,073	Ellis E. McCoy
N. Mex	1,475	2	1	3	5,289	27	5,437	F. L. Schneider
N. Y	110,271	8,617	12	19	38,554	80,236	126,612	H. B. Leonard
N. C.	1,841	10	100	100	256,582	332	256,914	A. L. Hirleman
N. Dak	2,276	16	53	100	65,754	5,452	78,096	H. H. Cohenour
Ohio	30,316	173	88	100	241,016	619	245,516	A. J. De Fosset
Oklahoma	8,376	10	7	0	20,721	209	20,935	L. J. Allen
Oreg	8,165	23	16	45	70,525	1,013	71,555	S. B. Foster
Pa	64,514	1,133	46	69	130,974	12,666	154,783	J. B. Reidy
R. I.	1,355	77	0	0	789	276	1,415	E. A. Crossman
S. C.	3,914	1	29	63	72,923	120	73,049	W. K. Lewis
S. Dak	3,133	20	6	9	9,392	886	10,489	C. H. Hays
Tenn	36,840	30	131	33	128,932	40	129,017	H. L. Fry
Tex	12,571	105	10	4	30,492	249	31,499	H. L. Darby
Utah	5,481	27	22	76	8,218	112	10,687	F. E. Murray
Vt	13,109	183	2	14	4,082	10,905	16,273	L. H. Adams
Va	9,941	29	71	71	121,515	686	122,453	R. E. Brookbank
Wash	7,586	52	36	92	50,737	67	62,803	J. C. Exline
W. Va	8,924	13	45	82	97,080	635	98,885	H. M. Newton
Wis	161,849	314	71	100	179,363	9,618	190,381	J. S. Healy
Wyo			0	0	12,743	5	14,336	W. A. Sullivan
Total	1,070,677	19,376	1,481	483	126,673	184,276	3,670,421	

¹ Not including part of 1 county.² Not including 65 towns.

SUMMARY OF HOG-CHOLERA-CONTROL WORK, SEPTEMBER, 1932

State	Bureau veteri- narians engaged in work ¹	Meetings addressed	Premises investi- gated	Demonstrations		Autopsies per- formed	Outbreaks reported to bureau veteri- narians
				Number	Hogs treated		
Alabama	1		71				
Colorado	.5	1	22			13	11
Florida	1		94			2	73
Georgia	1		209				9
Idaho	.3		9			2	2
Illinois	3	5	177			98	133
Indiana	2		141			16	37
Iowa	2	1	75	3	243	48	138
Kansas	.5		30			1	
Kentucky	1.5		105			6	3
Louisiana	1		31				4
Maryland	2	1	354	2	76	18	50
Michigan	1.5		84	2	83	8	47
Mississippi	1.03	1	108	1	14	1	
Missouri	1	2	49	4	169	9	12
Nebraska	1		109	3	305	40	34
North Carolina	.03		5	1	350		
Ohio	2		64	3	116	9	74
Oklahoma	2	1	255			1	2
South Carolina	1		97	91	850	7	20
South Dakota	1		35			9	38
Tennessee	.5		44			3	8
Texas	1		52			1	9
Virginia	1	2	206	87	223	1	3
Washington	1	1	43			11	13
Wisconsin	1		46			12	25
Total	30.86	15	2,515	203	2,615	316	745

¹ Fractions denote veterinarians devoting part time to work.

NOTE.—No work reported from States not listed.

ANTI-HOG-CHOLERA SERUM AND HOG-CHOLERA VIRUS PRODUCED UNDER LICENSES, SEPTEMBER, 1932

Period	Total serum	Clear serum completed	Hyperim- mune blood cleared	Simultane- ous virus	Hyperim- munizing virus
September, 1932	Cc	Cc	Cc	Cc	Cc
September, 1931	71,824,617	63,819,571	79,779,701	5,487,371	13,632,756
9 months ended	77,629,233	64,959,238	83,527,395	5,735,644	15,769,496
September, 1932	878,223,776	774,007,464	928,939,680	47,444,389	163,879,055
September, 1931	692,085,971	599,240,800	732,545,086	55,571,757	142,592,382

LICENSES ISSUED FOR BIOLOGICAL PRODUCTS, SEPTEMBER, 1932

* License No. 34 was issued September 16, 1932, to the Peters Serum Co., 1611 Genesee Street, Kansas City, Mo. (mailing address, lobby Livestock Exchange Building), for: Blackleg agressin (cultural).

PROCEEDINGS UNDER THE PACKERS AND STOCKYARDS ACT, OCTOBER, 1932

Docket No. 391.—In re Loftin & Beasley, market agency, Nashville, Tenn. On July 28, 1932, the Acting Secretary of Agriculture issued an inquiry, alleging that respondents had violated Title III of the packers and stockyards act in that they had failed, neglected, and refused to execute and maintain a reasonable bond to secure the performance of their obligations as a market agency. On September 28, 1932, respondents admitted the truth of the matters and things therein alleged and waived a hearing thereon. Respondents have now entered into a suitable

trust agreement in lieu of a surety bond. On October 27, 1932, respondents were ordered to cease and desist from doing business as a market agency without executing and maintaining a reasonable bond to suitable trustees to secure the performance of their obligations, or without submitting some other form of indemnity which will afford substantially equivalent protection.

Docket No. 392.—In re Perry & Griffin, market agency and dealer, Nashville, Tenn. On July 28, 1932, the Acting Secretary of Agriculture issued an inquiry, alleging that respondents had violated Title III of the packers and stockyards act in that they had failed, neglected, and refused to execute and maintain a reasonable bond to suitable trustees to secure the performance of their obligations incurred as a market agency and dealer. On October 3, 1932, respondents filed a satisfactory bond. On October 27, 1932, respondents were ordered to cease and desist from doing business as a market agency and dealer without executing and maintaining a reasonable bond to secure the performance of their obligations.

Docket No. 400.—In re Morris Begel, market agency and dealer, Milwaukee, Wis. On September 14, 1932, the Acting Secretary of Agriculture issued an inquiry alleging that respondent had violated Title III of the packers and stockyards act in that he had failed, neglected, and refused to execute and maintain a suitable bond to secure the performance of his obligations incurred as a market agency and dealer. Under date of September 21, 1932, respondent admitted the truth of the matters and things alleged and waived a hearing thereon. On October 18, 1932, respondent was suspended from registration as a market agency and dealer for a period of six months, with leave, however, during said period to apply for a revocation of this suspension upon satisfactory proof that he has filed a bond. He was also ordered to cease and desist from doing business as a market agency and dealer without executing and maintaining a reasonable bond to secure the performance of his obligations.

RESULTS OF PROSECUTIONS FOR VIOLATIONS OF LAWS

Penalties and fines have been imposed in prosecutions for violations of regulatory laws, as reported to the bureau, as follows:

Twenty-eight Hour Law

Baltimore & Ohio Railroad Co., \$100 penalty.
Lehigh Valley Railroad Co., \$100 penalty.
New York Central Railroad Co. (24 cases), \$2,400 penalties.
New York, Chicago & St. Louis Railroad Co., \$100 penalty.
Pennsylvania Railroad Co., \$100 penalty.
Railway Express Agency (Inc.), \$100 penalty.
Southern Pacific Company, \$100 penalty.

Meat Inspection Law

Premier Packing Corp., Brooklyn, N. Y., for offering uninspected meat for interstate shipment, \$50 fine.

FEDERAL GASOLINE TAX

For the information of officials and others, relative to the payment of the Federal gasoline tax, there is quoted herewith an extract from a decision of the Comptroller General dated August 17, 1932:

“* * * It may be stated that where purchases of gasoline are under a contract, the contractor is not entitled to be paid any amount in addition to the price provided for in the contract regardless of whether the price so fixed did or did not include any amount to cover the tax or cost of collection. However, where it is necessary to purchase gasoline in small quantities from retailers without a previous contract, the Government must pay the price demanded, notwithstanding that it may have been increased a sufficient amount to pass on to the consumer the Federal tax and/or the cost of collecting the same.”

FORM 1034 VOUCHERS

Employees preparing and forwarding Form 1034 vouchers should observe the following:

1. Be sure that columns headed "No. & Date of Order" and "Date of Delivery or Service" are properly filled in. When deliveries are made on more than one day, make the dates inclusive and mark them so.
2. Discounts on parts for automobiles or other items must be taken on the total of all the items instead of from each individual item.
3. Make all explanations in the form of a duplicate memorandum attached to the face of the voucher. Do not put explanation on the voucher itself unless specifically requested to do so.
4. Responsibility for duplicate payments rests with the office making the purchase. Never, under any circumstances, destroy a voucher and substitute a new one for it, or submit a voucher covering an item once voucherized unless such action is requested by the bureau.
5. When supplies are ordered on a P-1 requisition, sign the green receipt (Form P2a) you receive from the bureau as soon as the goods are received. If by chance a voucher covering the items is received, forward it to the bureau without signing it or making any notations thereon.
6. Arrange the forms in the following order: (1) Form 1034; (2) Form 1066, certified bills or explanatory memorandums; (3) mailing slip; (4) Form 1034a; (5) duplicate certified bills; (6) duplicate explanatory memorandums; (7) Form P2a, covering all nonexpendable property.
7. Staple all the forms securely together in the extreme upper left-hand corner. Use not other staples.
8. Indicate agreement lease or bid number in the space marked "Contract No. _____, Date _____," and at no other place on the voucher.
9. Quote liability authorization and project to be charged in the space marked "Additional Statements by Department, Bureau, or Office."
10. Before mailing vouchers to the bureau be sure that they are signed by the payee and by the inspector or other person in charge.

PERMITTED DISINFECTANTS

The bureau has granted permission for the use of the following saponified cresol solutions in official disinfection, as required by B. A. I. Order 309: "Brunswig Drug Co.'s Solution Cresol Compound, U. S. P.," Brunswig Drug Co., 501 North Main Street, Los Angeles, Calif.; "Fidelity Stock Disinfectant," Fidelity Laboratories (Inc.),¹ 820 Exchange Avenue, Chicago, Ill.; "Lacco Cresol Compound," Los Angeles Chemical Co., 1960 Santa Fe Avenue, Los Angeles, Calif.

Change in Trade Name

Permission was previously granted to the Kiefer-Stewart Co., Indianapolis, Ind., for the use of "Ka-De-Co Cresol Solution 50%" in official disinfection as required by B. A. I. Order 309. At the request of this company the name "Ka-De-Co Cresol Solution 50%" has been discontinued and the trade name of the product changed to "KaDeCo Cresylic Acid Solution 50%."

RED CROSS ROLL CALL

The annual membership roll call of the American Red Cross will take place during the period from November 11 to 26. The facilities of this splendid organization are being utilized to relieve distress throughout the country on a scale never previously attempted.

To continue this work and to provide for the regular activities of disaster relief, assistance to service men and veterans, public-health nursing, etc., require the support of all our people. The employees of the Department of Agriculture have always responded generously to such appeals and I urge them to give increased support to this most urgent plea.—ARTHUR M. HYDE, *Secretary*.

¹ Distributor.

NEW PUBLICATIONS OF THE BUREAU

[The bureau keeps no mailing list for sending publications to individual employees but sends copies to officers in charge of stations and offices. These publications should be regarded as notification copies. So far as possible additional copies will be furnished on request.]

Farmers' Bulletin No. 1437 (slightly revised). Swine Production. By E. Z. Russell, Animal Husbandry Division. P. 37, figs. 19.

Farmers' Bulletin No. 1491 (slightly revised). Breeds of Dogs. By S. R. Speelman and J. O. Williams, Animal Husbandry Division. P. 46, figs. 34.

Miscellaneous Circular 14 (revised). State Sanitary Requirements Governing Admission of Livestock. P. 119.

Yearbook Separate No. 1295. Pastures should Supply a Larger Proportion of Feed Used by Livestock. By A. T. Semple, Animal Husbandry Division, and C. R. Enlow, Bureau of Plant Industry. P. 4, fig. 1.

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